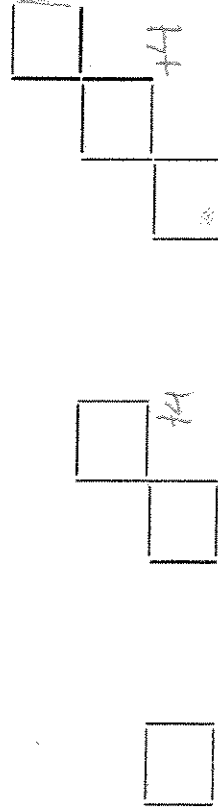


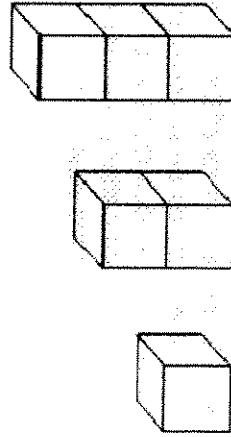
2.3.1: Pattern Practice (continued)

3. Use toothpicks:



| Term Number | Number Tiles/<br>Picks/Cubes | Description   |
|-------------|------------------------------|---|
| 1           | 4                            | The pattern starts with 4 toothpicks in a form of a square. Then the pattern adds 4 more toothpicks in a square each time going in a diagonal line. |
| 2           | 8                            |   |
| 3           | 12                           |   |
| 20          | 80                           |   |
| $n$         |                              | $4n+0$  |
|             |                              |   |

4. Determine the number of faces that you can see in each term:



| Term Number | Number Tiles/<br>Picks/Cubes | Description   |
|-------------|------------------------------|---|
| 1           | 3                            | The pattern starts with 3 face, then adds 2 face each time. |
| 2           | 5                            |   |
| 3           | 7                            |   |
| 20          | 41                           |   |
| $n$         |                              | $2n+1$  |
|             |                              |   |

